1    1.    A method for forming a data table stored in memory, the data table forming a library index of

2    storage locations to electronic digital content, the method comprising the steps of:

3         receiving an encrypted file from storage wherein the file has a beginning, an end and trailer

4    section located just prior to the end;

5         reading a predetermined distance into the file to retrieve an identifier placed at a

6    predetermined position;

7         decrypting a identifier with a first decrypting key;

8         determining if the identifier is valid and if the identifier is valid then performing the steps of:

9             reading the trailer section from the file;

10            decrypting the trailer section with the first decrypting key;

11            determining if the there are any updates in the trailer section and if there are no updates to

12    the trailer section then performing the steps of:

13            decrypting a reference table containing one or more data table location indicators for

14            data items with the first decrypting key;

15            decrypting one or data items with the first decrypting key; and

16            populating the data table with data items at locations specified in the reference table

17            with data.


1    2.    The method according to claim 1, wherein the step of populating the data table includes

2    populating the data table in a tamper resistant environment.


1    3.    The method according to claim 1, further comprising the steps of :

2    retrieving a base key from a key database;

3    retrieving a timestamp from the database file

4    forming the first decrypting key as a combination of the base key and the timestamp.

1    4.    The method according to claim 1, wherein the step of determining if there are any updates in

2    the trailer section includes;

3            getting an offset to an update reference table;

4            decrypting the update reference table containing one or more data table location indicators

5    for update data items with the first decrypting key;

6            decrypting one or more update data items with the first decrypting key;

7            populating the data table with update data items at locations specified in the update  reference

8    table with the update data.

1    5. A method for storing electronic digital content, the content containing an index to memory

2    address locations containing one or more members forming the library, the library index stored in a

3    data table in memory, the data table comprising one or more entries with address references to

4    metadata and address references to content data for each of the one or more members forming the

5    library, the method comprising the steps of:

6            writing a header section comprising a row/size indicator;

7            writing a data section immediately after the header section, the data section comprising one or

8    more data items represented in a length-data string format, wherein the data section comprises

9    references to one or more pieces of metadata and content data forming the one or more members

10   in the library of electronic digital content;

11           writing a reference table section immediately after the data section, the reference table section

12   comprising a plurality of row/column entries, wherein a number of columns forming each row is

13   specified by the row/size indicator and wherein one or more row/column entries in each row of the

14   reference table represent offsets to each of the one or more pieces of metadata and content data

15   forming the electronic digital content; and

16           writing a trailer section immediately after the reference table section, the trailer section

17   comprising an offset to the beginning of the reference table.


1    6.    The method according to claim 5, wherein the step of writing the reference table section

2    includes writing a reference table section with an token identifier to determined subsequently if the

3    stored library was altered by a unauthorized party.


1    7.    The method according to claim 5, wherein the step of writing the data section immediately

2    after the header section includes writing the data section within a tamper resistant environment.

1    8.    The method according to claim 6, further comprising the step of encrypting the data section

2    with a first encrypting key.


1    9.    The method according to claim 7, wherein the step of writing a reference table section further

2    comprises writing one or more update content sections representing one or more updates to the one

3    or more members forming the library of electronic digital content, wherein each of the one or more

4    update content sections is written after the trailer section, and wherein each update content section

5    includes at least one:

6        update data section, the update data section comprising one or more updated data items

7    represented in a length-data string format wherein the data section comprises references to one or

8    more pieces of updated metadata and updated content data forming the electronic digital content;

9        update reference table section immediately after the update data section, the update reference

10    table section comprising row/column entries, wherein one or more row/column entries in each row

11    of the reference table represent offsets to each of the one or more pieces of metadata and content

12    data forming the electronic digital content; and

13        update trailer section immediately after the update reference table section, the update trailer

14    section comprising an offset to the beginning of the update 1reference table.

1    10.    A method for forming a data table stored in memory, the data table forming a library index of

2    storage locations to electronic digital content, the method comprising the steps of:

3          retrieving an encrypted file from storage wherein the file has a beginning, an end and trailer

4    section located just prior to the end;

5          reading from the end of the file, a predetermined distance, to read an identifier placed at a

6    predetermined position;

7          decrypting a token with a first decrypting key;

8          determining if the token is valid and if the token is valid then performing the steps of:

9                reading the trailer section from the file;

10               decrypting the trailer section with the first decrypting key;

11               determining if the there are any updates in the trailer section and if there are no updates to

12   the trailer section then performing the steps of:

13               decrypting a reference table containing one or more data table location indicators for

14   data items with the first decrypting key;

15               decrypting one or data items with the first decrypting key; and

16               populating the data table with data items at locations specified in the reference table

17   with data.

1     11.    A computer readable medium containing programming instruction for forming a data table

2     stored in memory, the data table forming a library index of storage locations to electronic digital

3     content, the programming instructions comprising:

4        receiving an encrypted file from storage wherein the file has a beginning, an end and trailer

5     section located just prior to the end;

6        reading a predetermined distance into the file to retrieve an identifier placed at a

7     predetermined position;

8        decrypting a identifier with a first decrypting key;

9        determining if the identifier is valid and if the identifier is valid then performing the steps of:

10          reading the trailer section from the file;

11          decrypting the trailer section with the first decrypting key;

12          determining if the there are any updates in the trailer section and if there are no updates to

13     the trailer section then performing the steps of:

14            decrypting a reference table containing one or more data table location indicators for

15     data items with the first decrypting key;

16            decrypting one or data items with the first decrypting key; and

17            populating the data table with data items at locations specified in the reference table

18          with data.


1     12.    The computer readable medium according to claim 11, wherein the programming instruction

2     of populating the data table includes populating the data table in a tamper resistant environment.

3

1      13.   The computer readable medium according to claim 11, further comprising the programming

2      instruction of :

3             retrieving a base key from a key database;

4             retrieving a timestamp from the database file

5             forming the first decrypting key as a combination of the base key and the timestamp.


1      14.   The computer readable medium according to claim 11, wherein the programming instruction

2      of determining if there are any updates in the trailer section includes;

3             getting an offset to an update reference table;

4             decrypting the update reference table containing one or more data table location indicators

5      for update data items with the first decrypting key;

6             decrypting one or more update data items with the first decrypting key;

7             populating the data table with update data items at locations specified in the update  reference

8      table with the update data.

1    15.   An end user information processing system comprising:

2         a data table stored in memory, the data table forming a library index of storage locations to

3    electronic digital content;

4         an encrypted file received receiving from storage wherein the file has a beginning, an end and

5    trailer section located just prior to the end;

6         an identifier placed at a predetermined distance in the file;

7         a first decrypting key for decrypting a identifier;

8         means for determining if the identifier is valid and if the identifier is valid then means for

9    determining if there are any updates in the trailer section, wherein the trailer section has been

10   decrypted with the first decrypting key section , and if there are any updates in the trailer section

11   then populating the data table with data items at locations specified in the reference table with data.


1    16.   The end user information processing system according to claim 15, wherein the means for

2    determining if the identifier is valid further includes populating the data table includes populating the

3    data table in a tamper resistant environment.